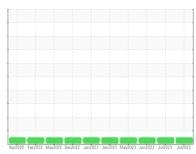


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **820015-101299**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

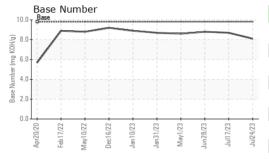
Fluid Condition

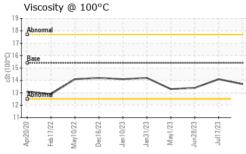
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Apriloso Fedilosz Maytosz Onciosz Janitoss Janitoss Maytoss Junitoss Junitoss Junitoss Junitoss Junitoss						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087080	GFL0087084	GFL0083703
Sample Date		Client Info		24 Jul 2023	17 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		17463	17435	17310
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	4	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	6	4
Lead	ppm	ASTM D5185m	>40	2	0	0
Copper	ppm	ASTM D5185m		- <1	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	рріп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	950	974	963
Calcium	ppm	ASTM D5185m	1070	1036	1060	1084
Phosphorus	ppm	ASTM D5185m	1150	1017	1067	1034
Zinc	ppm	ASTM D5185m	1270	1291	1321	1284
Sulfur	ppm	ASTM D5185m	2060	3681	3973	3809
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19	2	21
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	8	8	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.7	5.7	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	18.7	19.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	14.9	16.0
Base Number (BN)	mg KOH/g		9.8	8.1	8.7	8.8
Dage Hamber (DIV)	my Normy	AO I WI DEUJU	0.0	U. 1	0.7	0.0



OIL ANALYSIS REPORT

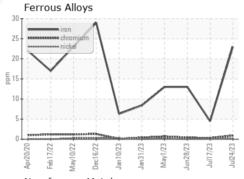


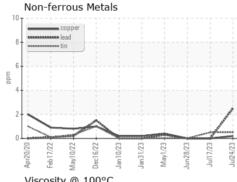


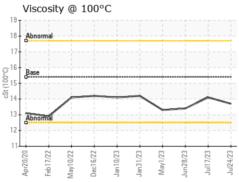
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

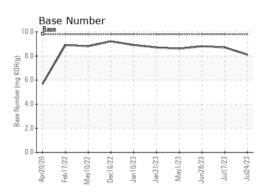
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.1	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10605842 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087080 : 05925895

Received Diagnosed

: 16 Aug 2023 : 17 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 844 - Princeton Hauling 10129 Highway 62 West

Princeton, KY US 42445 Contact: Kenneth Bigers

kbigers@gflenv.com T: (270)970-0371

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.